Amendments to the Claims:

Please amend claim 33 as shown below.

This listing of claims will replace all prior versions, and listings, of claims in the application:

<u>Listing of Claims</u>:

1-32. (Canceled)

33. (Amended) A compound of the formula:

wherein,

T^{ms} is an organic group detectable by mass spectrometry, comprising carbon, at least one of hydrogen and fluoride, and optional atoms selected from oxygen, nitrogen, sulfur, phosphorus and iodine;

L is an organic group which allows a T^{ms}-containing moiety to be cleaved from the remainder of the compound, wherein the T^{ms}-containing moiety comprises a functional group which supports a single <u>positively</u> ionized charge state when the compound is subjected to mass spectrometry and is selected from tertiary amine <u>and</u>, quaternary amine <u>and organic acid</u>;

X is MOI other than nucleic acid fragment, and the compound has a mass of at least 250 daltons.

- 34. (Original) A compound according to claim 33 wherein T^{ms} has a mass of from 15 to 10,000 daltons and a molecular formula of $C_{1-500}N_{0-100}O_{0-100}S_{0-10}P_{0-10}H_{\alpha}F_{\beta}I_{\delta}$ wherein the sum of α , β and δ is sufficient to satisfy the otherwise unsatisfied valencies of the C, N and O atoms.
- 35. (Original) A compound according to claim 33 wherein T^{ms} and L are bonded together through a functional group selected from amide, ester, ether, amine,

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sulfide, thioester, disulfide, thioether, urea, thiourea, carbamate, thiocarbamate, Schiff base, reduced Schiff base, imine, oxime, hydrazone, phosphorate, phosphoramide, phosphoramide, sulfonate, sulfonamide or carbon-carbon bond.

- 36. (Original) A compound according to claim 35 wherein the functional group is selected from amide, ester, amine, urea and carbamate.
- 37. (Original) A compound according to claim 35 wherein L is selected from L^{ho} , L^{acid} , L^{base} , $L^{[O]}$, $L^{[R]}$, L^{enz} , L^{elc} , L^{Δ} and L^{ss} , where actinic radiation, acid, base, oxidation, reduction, enzyme, electrochemical, thermal and thiol exchange, respectively, cause the T^{ms} -containing moiety to be cleaved from the remainder of the molecule.
- 38. (Original) A compound according to claim 37 wherein $L^{h\nu}$ has the formula $L^1-L^2-L^3$, wherein L^2 is a molecular fragment that absorbs actinic radiation to promote the cleavage of T^{ms} from X, and L^1 and L^3 are independently a direct bond or an organic moiety, where L^1 separates L^2 from T^{ms} and L^3 separates L^2 from X, and neither L^1 nor L^3 undergo bond cleavage when L^2 absorbs the actinic radiation.
- 39. (Original) A compound according to claim 38 wherein $-L^2-L^3$ has the formula:

$$\begin{array}{c}
c \\
b \\
\hline
NO_2
\end{array}$$

with one carbon atom at positions a, b, c, d or e being substituted with $-L^3-X$ and optionally one or more of positions b, c, d or e being substituted with alkyl, alkoxy, fluoride, chloride, hydroxyl, carboxylate or amide; and R^1 is hydrogen or hydrocarbyl.

Application No. 10/000,467 Reply to Office Action dated February 18, 2004

- 40. (Original) A compound according to claim 39 wherein X is $-\frac{C}{|I|} = R^2 \text{ and } R^2 \text{ is -OH or a group that either protects or activates a carboxylic acid for O coupling with another moiety.}$
- 41. (Original) A compound according to claim 38 wherein L³ is selected from a direct bond, a hydrocarbylene, -O-hydrocarbylene, and hydrocarbylene-(O-hydrocarbylene)_n-H, and n is an integer ranging from 1 to 10.

42-51. (Canceled)

52. (Original) A compound according to claim 33 wherein MOI is selected from protein, peptide, oligosaccharide, antibody, antigen, drugs and synthetic organic molecules.

53-61. (Canceled)